

### Past Continuing Education Unit Course Offerings - 2001

Date	Title	CEUs	Location(s)
<b>4/7/01</b>	WSD & GWA - Technical Seminar  1. Cost and Markup 2. The Future of Drilling 3. Domestic Well and Pump License 4. New Driller's Field Guide 5. Project Documentation 6. Roundtable 7. DOE Report	7 @ 1 each	Ellensburg, WA
<b>7/28/01</b>	Mini Mud School	8	Familian NW Woodinville, WA
<b>8/14/01 through 8/16/01</b>	Heat Pump Installation.	4	The Northern Inn Republic, WA
<b>9/28/01 and 9/29/01</b>	WA State Ground Water Association  Technical Seminar	9	Double Tree Inn Spokane, WA
<b>11/17/01</b>	Drilling Mud School by Bariod Drilling Fluids	8	19700 SW Tieton Tualatin, OR 97062
<b>12/08/01</b>	Well Cleaning	6	2519C Pacific Highway East Tacoma, WA

## Past Continuing Education Unit Course Offerings - 2000

Date	Title	CEUs	Location(s)
<b>3/10</b>	Weather/Climate in the Pacific NW	3	Springfield, OR
<b>3/21-23</b>	Construction Safety-US Army Corps	24.0	New Orleans, LA
<b>4/8</b>	WSDGWA Tech Seminar		Ellensburg, WA
<b>4/8</b>	1. Well Treatment	1.0	Ellensburg, WA
<b>4/8</b>	Drilling Safety	1.0	Ellensburg, WA
<b>4/8</b>	Roundtable	1.0	Ellensburg, WA
<b>4/8</b>	Regulation Well Logs	1.0	Ellensburg, WA
<b>4/8</b>	Government Contracts	1.0	Ellensburg, WA
<b>4/8</b>	Screen Installation	1.0	Ellensburg, WA
<b>4/8</b>	Grouting	1.0	Ellensburg, WA
<b>4/23-24 5/2-3</b>	Ecology Sponsored Training		Olympia, Mt Vernon, Yakima, Spokane
<b>4/23-24 5/2-3</b>	1. Construction/Licensing/CEU Regulations	1.0	Olympia, Mt Vernon, Yakima, Spokane
<b>4/23-24 5/2-3</b>	2. Affects of Earthquakes on Groundwater	1.5	Olympia, Mt Vernon, Yakima, Spokane
<b>4/23-24 5/2-3</b>	3. Well Logs on the Internet	1.5	Olympia, Mt Vernon, Yakima, Spokane
<b>4/23-24 5/2-3</b>	4. Welding	3.0	Olympia, Mt Vernon, Yakima, Spokane
<b>6/13</b>	Mini Mud School-Familian	4.0	Burlington, WA
<b>10/16-19</b>	NGWA-Annual Conference		Las Vegas, NV
<b>10/16-19</b>	1. Can Your Rig Drill a Little Deeper?	1.0	Las Vegas, NV
<b>10/16-19</b>	2. Ensuring a Safe Work Environment	1.0	Las Vegas, NV
<b>10/16-19</b>	3. The Drilling Bus-You're Really in the Trucking Industry	2.0	Las Vegas, NV
<b>10/16-19</b>	4. Business Valuation and Sale-of-Business	3.0	Las Vegas, NV
<b>10/16-19</b>	5. GeoExchange, Energy Solutions	3.0	Las Vegas, NV
<b>10/16-</b>	6. Fighting Your Worst Competition	2.0	Las Vegas, NV

<b>19</b>			
<b>10/16-19</b>	7. The Ground water Rule: Impacts our Ind	1.0	Las Vegas, NV
<b>10/16-19</b>	8. Horizontal Enviro Drilling	3.0	Las Vegas, NV
<b>10/16-19</b>	9. How to be an Effective Trainer	1.0	Las Vegas, NV
<b>10/16-19</b>	10. Mandated Drug and Alcohol Testing	1.0	Las Vegas, NV
<b>10/16-19</b>	11. DOT Supervisor Training	1.0	Las Vegas, NV
<b>10/16-19</b>	12. Learn How to Become on of the Heard	.25	Las Vegas, NV
<b>10/16-19</b>	13. My Most Challenging Drilling Job	1.0	Las Vegas, NV
<b>10/16-19</b>	14. 2000-A Milestone Year	.5	Las Vegas, NV
<b>10/16-19</b>	15. Preparing for the NGWA Exam	1.0	Las Vegas, NV
<b>10/16-19</b>	16. Pump tests for Practical People	1.0	Las Vegas, NV
<b>10/16-19</b>	17. Pumping for Profits	1.0	Las Vegas, NV
<b>10/16-19</b>	18. Recognizing Noise and Dust Hazards	1.0	Las Vegas, NV
<b>10/16-19</b>	19. Variable Speed Technology	.5	Las Vegas, NV
<b>10/16-19</b>	20. Transporting Explosives	1.0	Las Vegas, NV
<b>10/16-19</b>	21. NWISWEB: USGS Data	3.0	Las Vegas, NV
<b>10/16-19</b>	22. Using the New NGWA Safety Manual	1.0	Las Vegas, NV
<b>10/16-19</b>	23. Reading and Interpreting Maps	1.0	Las Vegas, NV
<b>10/16-19</b>	24. Understanding Worker Comp Insurance	1.0	Las Vegas, NV
<b>10/16-19</b>	25. Water Well Design and Construction	1.0	Las Vegas, NV
<b>10/16-19</b>	26. Water Well Hydrology	3.0	Las Vegas, NV
<b>10/16-19</b>	27. What Can Be Done - Ordinances	1.0	Las Vegas, NV

## Past Continuing Education Unit Course Offerings - 1999

Date	1999 Title	CEUs	Location(s)
<b>1/25-28</b>	Water Conservancy Boards	13	Olympia
<b>2/2</b>	San Juan Co Health Seminar		Friday Harbor
	1. Well location	.5	
	Water program goals	.5	
	Pump tests	1.5	
	Well construction	1.5	
	Wells and salt water	.5	
	Question and Answer	.5	
	Group B wells	.75	
	Sanitary surveys	2.5	
	Water availability	.25	
	Alternative water systems	.25	
	Group A systems	.5	
<b>2/10</b>	Skagit Co Well Delegation	2.0	Mt Vernon
<b>2/16</b>	United Pipe-Technical Seminar		Moses Lake
	1. Down hole hammers	1.0	
	Drilling fluids and well seals	1.0	
	Ozone filtration	1.0	
<b>2/16</b>	Evergreen Water System Seminar		Yakima
	1. Basic water law	.75	
	De-chlorination	2.0	
	Where does all the water go?	1.75	
	Hydrofracturing	2.0	

	Lead and Copper in groundwater	.75	
	Pressure reducing valves	.5	
	Pump hydraulics	1.0	
<b>2/18</b>	OGWA-Seminar		Portland, OR
	1. Well rehab	2.0	
	Safety training	1.5	
	Domestic well testing	1.0	
	Vehicle Safety	1.0	
	Submersible pumps	.5	
<b>2/19-20</b>	Pacific NW Groundwater Expo		Jantzen Beach, OR
	1. Continuing ed requirements for Washington	1.0	
	How to read and interpret maps	1.0	
	Washington groundwater update	1.0	
	Ozone and ultraviolet water treatment	1.0	
	Fighting your worst competition, yourself	1.0	
	Groundwater disinfection rule in our ind: arsenic and radon	1.0	
	Troubleshooting submersible pumps	1.0	
	Urban sprawl and our industry	1.0	
	Alternating marketing strategies for your business	1.0	
	Roundtable discussion	1.0	
<b>3/18</b>	Mesh Screens - Steve Fuller	1.0	Plymouth, MN
<b>3/26</b>	Preferred Pump-Technical Seminar		Sauk Rapids, MN
	1. Well Screen Design/Development Seminar	2.0	
	Well Sanitation Seminar	1.0	

	PVC/Polyethylene Pipe	1.0	
	Pitless Unit Seminar	1.0	
<b>3/8</b>	Idaho Water Resources Conference		CDL, ID
	1. Intrastate transportation requirements	1.0	
	2. Drilling fluids	1.0	
	3. Source water protection	1.0	
<b>3/19</b>	Spokane Co Health		Spokane
	1. Aquifer co-mingling	1.0	
	Well disinfecting	1.0	
	Well siting	1.0	
	Program statistics	1.0	
<b>3/22,23,25</b>	Water Filtration and Treatment Seminar	2.5	Tacoma, Spokane
<b>3/24,25,26</b>	Baroid Mini Mud School/Ecology Regs Seminar	7.0	Olympia, Yakima, Spokane
<b>4/10</b>	UW - Dewatering Seminar		Seattle
	1. Dewatering injection	.5	
	Shoring and dewatering design	.5	
<b>6/1</b>	Clover Park Technical College – Introduction to Soils	66	Lakewood, Wa
<b>6/1</b>	Clover Park Technical College –Environmental Sampling Methods	66	Lakewood, WA
<b>4/14</b>	Familian NW Seminar and Pump Workshop	6.5	Portland, OR
<b>4/17</b>	WSD&GWA-Technical Seminar	1.0	Ellensburg
	1. Drinking water regs	1.0	
	Welding	1.0	
	New pump testing procedures	1.0	
	AGO & DOE Opinion	1.0	

	ater well report	1.0	
	Artesian wells part 1	1.0	
	Artesian wells part 2	1.0	
	Screens	1.0	
<b>9/30</b>	Cascade Drilling Inc-ORC Seminar	2.0	
<b>9/30-10/1</b>	WSD&GWA-Technical Seminar		Pasco
	1. Water resources update	1.0	
	Dual rotary drilling	1.0	
	Pump certification program	.5**	
	Geology and soils	1.0	
	Sand filters and gravel packs	1.0	
	Drilling regs and licensing	1.5	
	Roundtable	1.0	
	Public health issues	.5	
	Drilling around the world	1.0	
	Accident prevention plans	1.0	
	Water source monitoring	1.0	
	**This class will be valued at .25 CEUs after 1999		
<b>10/4-6</b>	Cone Penetration Testing	10.0	Salina, KS
<b>10/6-8</b>	Membrane Interface Probe Training	10.0	Salina, KS
<b>10/5,7,26,28 and 11/16,18</b>	Franklin Electric Course-Well Pumps	3.5	Edmond, Canada  Saskatoon, Canada  Fargo-ND, Bozeman-MT, Albuquerque-NM, Fresno-CA
<b>12/1-2,7-8</b>	Ecology Sponsored Training		Mt Vernon, Vancouver, Yakima, Spokane

	1. Construction, licensing and CEU regs	1.5	
	AG's opinion on exempt wells	1.0	
	Mapping	1.0	
	Well screening	1.5	
	Soils and formations	2.0	
<b>12/3-6</b>	NGWA-Annual Conference		Nashville, TN
	1. Understanding workers comp insurance	1.0	
	Computers and contractors	1.5	
	Mandatory connection ordinance	.25	
	DOT inspections	1.0	
	Most current info on DOT regs	.5	
	Educational opps in groundwater	.5	
	Fighting your worst competition-yourself	1.0	
	Finding and keeping qualified employees	1.0	
	Fleet mgmt	1.0	
	Geoexchange in the new millenium	1.0	
	Horizontal environmental drilling	2.75	
	Horizontal drilling for contractors	3.5	
	OSHA citations affecting water well drilling	1.0	
	Presidential politics and the groundwater ind	.5	
	Pumps are more than mechanical mysteries	1.5	
	Reading and interpreting geologic and topo maps	3.0	
	Fundamentals of rigging	3.0	
	Ensuring a safe work environment	1.0	
	Succession planning	1.0	
	Using financing to get a competitive edge	1.0	



	Birds-eye view from Washington	.5	
	Keeping ahead of the water pub relations	.25	
	Water well design for consultants	3.5	
	Well technology 2000	1.0	
	Basic well problems	2.25	

### Past Continuing Education Unit Course Offerings - 1998

Date	1998 Title	CEUs	Location(s)
<b>2/6</b>	WSD&GWA		Ellensburg
	1. Finalization of Regs and CEUs	.6	
	DOE Regs "A Driller's Point of View"	.6	
	AGO-Update on Exempt Wells	.6	
	Pump Installer Certification	1.0	
	Fundamentals of Lubrication	1.9	
	Disinfection of Water	1.3	
	Pump Sizing and Applications	1.0	
<b>Feb 98</b>	Water Soft Inc-Water Filtration/Treatment	2.5	Seatac
<b>2/17-18</b>	Evergreen Water System Seminar		Ellensburg
	1. Basic Water Law	1.5	
	Geophysical Well Logging	2.0	
	Hydrofracturing	2.0	
<b>2/24</b>	Motor Carrier Education	2.0	Salem, OR
<b>3/18</b>	Kitsap Co Health Drinking Water Seminar	5.0	Bremerton
<b>3/18</b>	CETCO - Mini Mud School	4.0	Spokane
<b>3/19, 3/19</b>	Franklin Electric-Install, Maintain, Repair Pumps	3.25	Tacoma, Mt Vernon
<b>5/7</b>	Jefferson Co Health-Reg Overview	3.0	Port Townsend
<b>9/30</b>	Natural Attenuation Seminar	2	Woodinville
<b>10/1-2</b>	WSD&GWA - Technical Seminar		Mt Vernon

	1. Undereamer Bits	1.0	
	Analysis of Well Screens	1.0	
	Turbine Pumps	1.0	
	Cost of Doing Business	1.0	
	Horizontal Drilling	1.0	
	Hydrofracturing	1.0	
	L & I - "Are you in Compliance?"	1.0	
	Drilling Roundtable	1.0	
	DOE Update	1.0	
<b>10/21</b>	Bremerton-Kitsap Co Health Drillers Workshop	2.25	Bremerton
<b>11/18</b>	Jefferson Co Health Drillers and Pump Installers Workshop	2.0	Port Townsend
<b>12/12-17</b>	NGWA - Annual Conference		Las Vegas, NV
	1. A 100 years of cementing and sealing	1.0	
	A well is more than a hole in the ground	1.0	
	Challenging unnecessary water systems	.5	
	Controlling insurance costs and protecting your assets	1.0	
	Conducting and administrative audit	1.0	
	Diverse uses of ground water	1.0	
	Fighting your worst competition: yourself	1.0	
	Horizontal enviro drilling special interest group	2.0	
	How to organize and implement a safety prog	1.0	
	Hydrogeology 2000-soils logging	1.0	

	Impact of urban sprawl on ground water ind	1.0	
	Improving the effectiveness of your association	.5	
	Making effective use of new standard form drilling contract	1.0	
	Models for state licensing and continuing ed	.5	
	Pumping for profits	3.5	
	Selling in today's market	1.5	
	Sharpening your interviewing skills	.5	
	Sizing casing open area	1.0	
	The fundamentals of rigging	3.5	
	Connection between on-site sewage systems and wells	1.0	
	The new ISTE A	1.0	
	Life in "old" wells: using acid treatment and redevelopment techniques	2.0	
	Training doesn't cost-it pays	1.0	
	True drill rig maintenance	1.0	
	Washington and beyond	1.0	
	What does "struck by" really mean?	1.0	
	Horizontal drilling for well contractors	3.5	
	Getting up to speed before leaving your shop and getting on the hwy	3.0	
	Prevention and maintenance for water wells	3.5	

### Past Continuing Education Unit Course Offerings – 1997

Date	1997 Title	CEUs	Location(s)
<b>1/22-24</b>	WSD&GWA Technical Seminar		Spokane
	1. County Delegation, DOE Concerns/Plans	.5	
	Well Construction Standards Enforcement	.5	
	DOE Eastern WA Problems and Solutions	.5	
	Well Sealing Materials & Application	1.0	
	Technical Advisory Group Report	1.0	
	Legislative Affairs Update	1.0	
	Evolution & App of Tri-cone Bits for NW	1.0	
	Well Data Collection Project	1.0	
	County Delegation and Water Testing	.5	
	Roundtable Discussion Group	1.0	
	Geology in Eastern WA & Fracture Tracing	1.0	
	What Has Happened in Dungeness River Watershed	1.0	
	First Aid Requirements	1.0	
<b>10/30-31</b>	WSD&GWA Technical Seminar		Olympia
	1. Legislature Update	1.0	
	Geophysical Logging	1.25	
	Regulation Update	1.0	
	A Changing Association	1.0	
	Well Siting	1.0	
	Pumping High Solids Bentonite	1.25	
	On-Site First Aid	1.5	

	Tax Workshop	1.0	
<b>11/16</b>	OSHA 30-Hr Construction Haz Recognition	6.0	Hanford
<b>11/20</b>	Familian NW Seminar-Pumps	6.5	Mount Vernon

1996 Title	CEUs	Location(s)	Date
Ecology Sponsored Training	4	Olympia, Spokane	1/9, 1/23

1995 Title	CEUs	Location(s)	Date
Groundwater Monitoring Field Course	32	Columbus, OH	10/10-13
WyoBen Mini Mud School	6	Wilsonville, OR	Spring

### **Past Continuing Education Unit Course Offerings - 1996**

Date	1996 Title	CEUs	Location(s)
1/9, 1/23	Ecology Sponsored Training	4	Olympia, Spokane

### **Past Continuing Education Unit Course Offerings – 1995**

Date	Title	CEUs	Location(s)
10/10-13	Groundwater Monitoring Field Course	32	Columbus, OH
Spring	WyoBen Mini Mud School	6	Wilsonville, OR